P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 – Tel. (435) 755-9848 - Fax (435) 755-0015 - www.scytek.com

AFP (Alpha Fetoprotein) (Hepatocellular/Germ Cell Tumor Marker); Clone C2
(Concentrate)

Availability/Contents:

Item #	Volume
RA0558-C.1	0.1 ml
RA0558-C.5	0.5 ml
RA0558-C1	1 ml

Description:

Species:	Mouse.
Immunogen:	Alpha fetoprotein (AFP) purified from serum of a hepatoma patient.
Clone:	C2.
Isotype:	IgG1, kappa.
Entrez Gene ID:	174.
Hu Chromosome Loc.:	4q13.3.
Synonyms:	Alpha fetoglobulin; FETA; HPAFP.
Mol. Weight of Antigen:	70kDa.
Format:	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide.
Specificity:	It recognizes an oncofetal glycoprotein with a single chain of 70kDa, which is identified as alpha fetoprotein (AFP) (ISOBM TD-2 workshop). This monoclonal antibody is highly specific to AFP and shows no cross-reaction with other oncofetal antigens or serum albumin.
Background:	AFP is normally synthesized in the liver, intestinal tract, and yolk sac of the fetus. Antibody to AFP has been shown to be useful in detecting hepatocellular carcinomas (HCC) and germ cell neoplasms, especially yolk sac tumors.
Species Reactivity:	Reacts with human and mouse. Does not react with cow, dog, and rat. Others not known.
Positive Control:	Hep-G2 cells. Fetal liver or hepatocellular carcinoma.
Cellular Localization:	Cytoplasmic.
Titer/ Working Dilution:	Immunohistochemistry (Formalin-fixed): 1-2 µg/ml Flow Cytometry: 0.5-1 µg/million cells Immunofluorescence: 0.5-1 µg/ml
Microbiological State:	This product is not sterile.

Storage: 2° C 8° C

ScyTek Laboratories, Inc.
205 South 600 West
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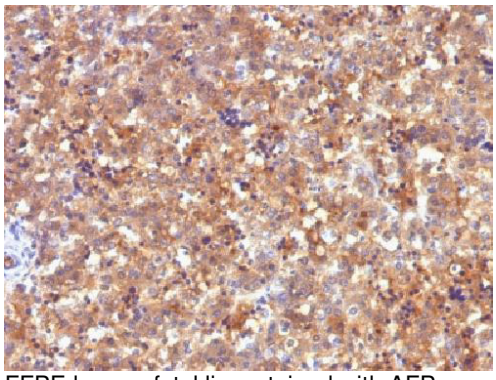
Uses/Limitations:

Not to be taken internally.
For Research Use Only.
This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.
Do not use if reagent becomes cloudy.
Do not use past expiration date.
Non-Sterile.



FFPE human fetal liver stained with AFP; Clone C2.

Ordering Information and Current Pricing at www.scytek.com

Procedure:

1. **Tissue Section Pretreatment (Required):** Staining of formalin fixed, paraffin embedded tissue sections is significantly enhanced by pretreatment with Tris-EDTA HIER Solution (10x) pH 9.0 (ScyTek catalog# TES500) for 5-10 minutes at >95°C followed by cooling to room temperature for 20 minutes.

2. **Primary Antibody Incubation Time:** We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.

3. **Visualization:** For maximum staining intensity we recommend the "CRF Anti-Polyvalent HRP Polymer (DAB) Lab Pack" (ScyTek catalog# CPP125, see IFU for instructions), combined with the "DAB Chromogen/Substrate Bulk Pack (High Contrast)" (ScyTek catalog# ACV500, see IFU for instructions).

Precautions:

Contains Sodium Azide as a preservative (0.09% w/v).
Do not pipette by mouth.
Avoid contact of reagents and specimens with skin and mucous membranes.
Avoid microbial contamination of reagents or increased nonspecific staining may occur.
This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.

References:

1. Tsung K., et al.Milunsky A., Alpert E. Derivation and characterization of a monoclonal hybridoma antibody specific for human alpha-fetoprotein. J. Immunol. Methods 39: 363-368, (1980)
2. Michell B., Fiebach H., Karsten U., Goussev A.I., Yazova A.K., Knopp J. Monoclonal antibodies to different epitopes of human alpha-fetoprotein (AFP). Eur. J. Cancer Clin. Oncol. 19:1239-1246, (1983).
3. Yazova A.K., Goussev A.I., Poltorania V.S., Yakimenko E.F., Human alpha- fetoprotein epitopes as revealed by monoclonal antibodies. Immunol. Lett. 25: 325-330, (1990).
4. Nustad K., Paus E., Kierulf B., Bormer O.P. Specificity and affinity of 30 monoclonal antibodies against alpha-fetoprotein. Tumor Biol 19: 293 -300, (1998).
5. Yakimenko E.F., Karamova E.R., Goussev A.I., Hilgers J., Abelev G.I., Yazova A.K.: Epitope mapping of human alpha-fetoprotein. Tumor Biol 19: 301309, (1998).

Storage: 2° C 8° C

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